

## ***M6VLQ Pro***

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## **Content**

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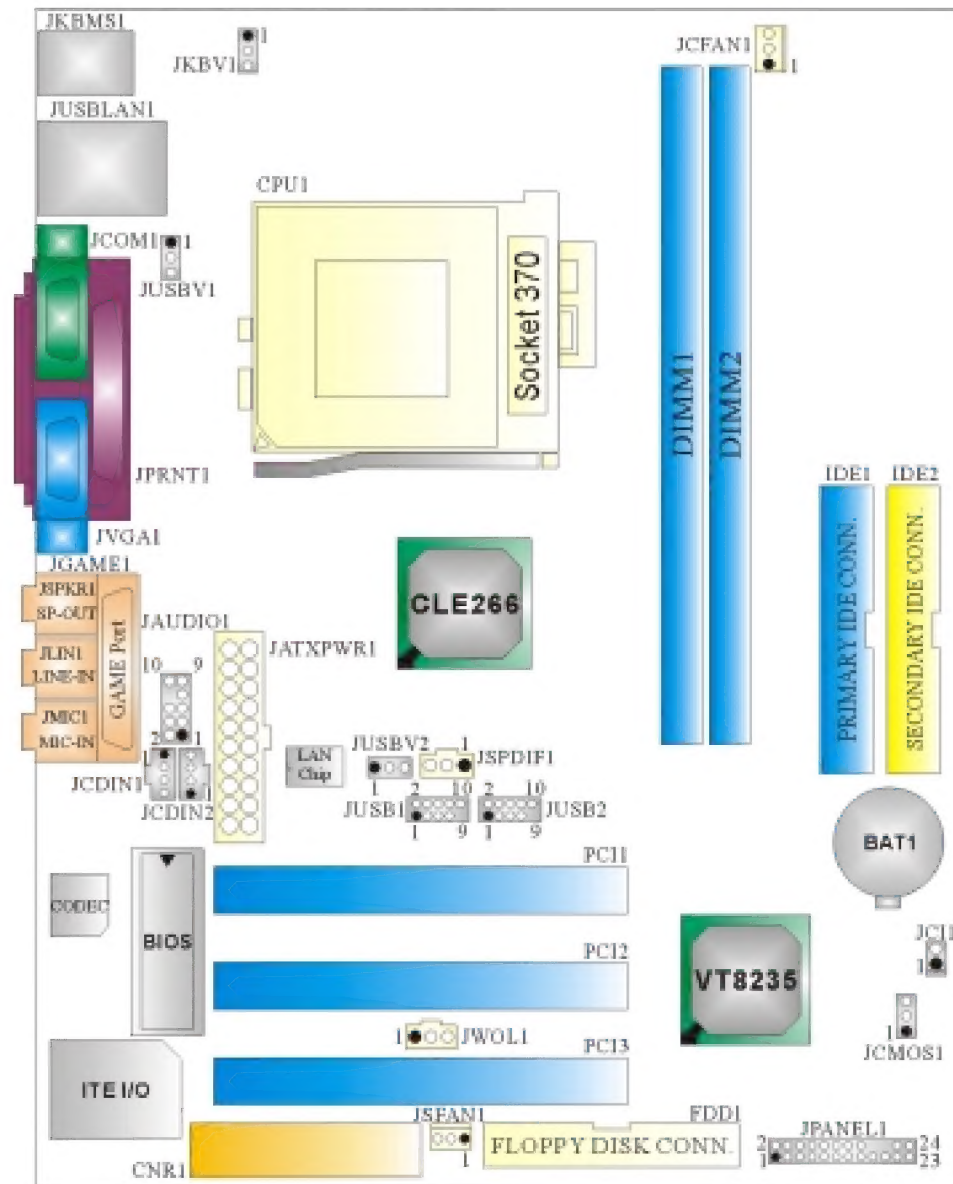
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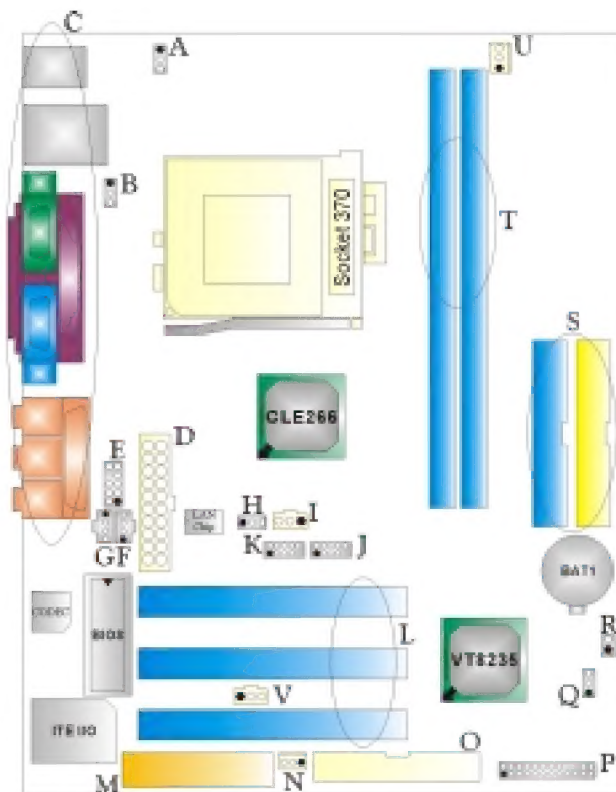
## Layout of M6VLQ Pro



※NOTE: ●represents the first pin.

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## Component Index



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# English

## M6VLQ Pro Features

### A. Hardware

#### CPU

- Provides Socket 370.
- Supports Celeron™ processor PPGA (FC-PGA & FC-PGA2) and the Pentium® III Micro-Processor (FC-PGA & FC-PGA2) and VIA C3 Ezra and Ezra-T Samuel 2 for high-end workstations and servers.
- Front Side Bus at 66/100/133 MHz.

#### Chipset

- North Bridge: VIA CLE266.
- South Bridge: VIA VT8235.

#### Main Memory

- Supports up to 2 DDR devices.
- Supports 200/266 MHz (without ECC) DDR devices.
- Maximum memory size of 2GB.

#### Lan Chip (optional)

- Chip: VIA VT6103.
- Supports 10 Mb/s and 100 Mb/s auto-negotiation
- Half/ Full duplex capability.

#### Slots

- Three 32-bit PCI bus master slots.
- One CNR slot.

#### On Board IDE

- Supports four IDE disk drives.
- Supports PIO Mode 4, Bridge Mode and Ultra DMA 33/66/100/133 Bus Master Mode.

#### Super I/O

- Chip: ITE IT8705.
- Provides the most commonly used legacy Super I/O functionality.
- Environment Control initiatives
  - H/W Monitor
  - Fan Speed Controller
  - ITE's "Smart Guardian" function

#### On Board AC'97 Sound Codec

- Chip: VIA VT1612A.
- AC'97 2.2 S/PDIF extension compliant codec.
- 18-bit stereo full duplex.

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## **On Board Peripherals**

### **a. Rear side**

- 1 serial port.
- 1 VGA port.
- 1 parallel port. (SPP/EPP/ECP mode)
- 1 audio port in horizontal position.
- 1 LAN jack.
- PS/2 mouse and PS/2 keyboard.
- 2 USB2.0 ports.

### **b. Front Side**

- 1 floppy port supports 2 FDDs with 360K, 720K, 1.2M, 1.44M and 2.88Mbytes.
- 4 USB2.0 ports.
- 1 S/PDIF Out Connector.

## **Dimensions**

- Micro ATX Form Factor: 19 X 24.4cm (W X L)

## **B. BIOS & Software**

### **BIOS**

- Award legal Bios.
- Supports APM1.2.
- Supports ACPI.
- Supports USB Function.

### **Software**

- Supports Watchdog™, 9th Touch™, FLASHER™, StudioFun!™ (optional), Warpspeeder™.
- Offers the highest performance for Windows 98 SE, Windows 2000, Windows Me, Windows XP, SCO UNIX etc.

## **Package contents**

- HDD Cable X1
- FDD Cable X1
- User's Manual X1
- USB Cable X1 (optional)
- Rear I/O Panel for ATX Case X1 (optional)
- Fully Setup Driver CD X1
- S/PDIF Cable X1 (optional)
- StudioFun! Application CD X1 (optional)

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## How to setup Jumper

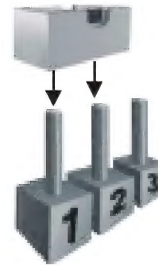
The illustration shows how jumpers are setup. When the Jumper cap is placed on pins, the jumper is “**close**”. If no jumper cap is placed on the pins, the jumper is “**open**”. The illustration shows a 3-pin jumper whose pin 1 and 2 are “**close**” when jumper cap is placed on these 2 pins.



Jumper close



Jumper open



Pin1-2 close

## CPU Installation

**Step1:** Pull the lever sideways away from the socket and then raise the lever up to a 90-degree angle.

**Step2:** Look for the white dot/cut edge. The white dot/cut edge should point towards the lever pivot. The CPU will fit only in the correct orientation.

**Step3:** Hold the CPU down firmly, and then close the lever.

**Step4:** Put the CPU fan on the CPU and buckle it. Connect the CPU fan power cable to the JCFAN1. This completes the installation.



Step1



Step2



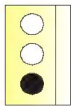
Step3



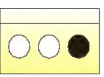
Step4

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### CPU Fan Header: JCFAN1

 JCFAN1	Pin No.	Assignment
	1	Ground
	2	+12V
	3	FAN rpm Rate Sense

### System Fan Header: JSFAN1

 JSFAN1	Pin No.	Assignment
	1	Ground
	2	+12V
	3	FAN rpm Rate Sense

### DIMM Modules: DIMM1/ DIMM2

DRAM Access Time: 2.5V Unbuffered DDR 200/266 MHz Type required.

DRAM Type: 64MB/ 128MB/ 256MB/ 512MB/ 1GB DIMM Module (184 pin)

#### Total Memory Size with Unbuffered DIMMs

DIMM Socket Location	DDR Module	Total Memory Size (MB)
DIMMB1	64MB/128MB/256MB/512MB/1GB *1	Max is 2GB
DIMMB2	64MB/128MB/256MB/512MB/1GB *1	

\*\*\*Only for reference\*\*\*

### Installing DDR Module

1. Unlock a DIMM slot by pressing the retaining clips outward. Align a DIMM on the slot such that the notch on the DIMM matches the break on the slot.
2. Insert the DIMM firmly and vertically into the slot until the retaining chip snap back in place and the Dimm is properly seated.





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## Jumpers, Headers, Connectors & Slots

### Floppy Disk Connector: FDD1

The motherboard provides a standard floppy disk connector that supports 360K, 720K, 1.2M, 1.44M and 2.88M floppy disk types. This connector supports the provided floppy drive ribbon cables.

### Hard Disk Connectors: IDE1/ IDE2

The motherboard has a 32-bit Enhanced PCI IDE Controller that provides PIO Mode 0~4, Bus Master, and Ultra DMA 33/ 66/ 100/ 133 functionality. It has two HDD connectors IDE1 (primary) and IDE2 (secondary).

The IDE connectors can connect a master and a slave drive, so you can connect up to four hard disk drives. The first hard drive should always be connected to IDE1.

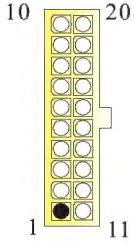
### Peripheral Component Interconnect Slots: PCI 1-3

This motherboard is equipped with 3 standard PCI slots. PCI stands for Peripheral Component Interconnect, and it is a bus standard for expansion cards. This PCI slot is designated as 32 bits.

### Communication Network Riser Slot: CNR1

The CNR specification is an open Industry Standard Architecture, and it defines a hardware scalable riser card interface, which supports modem only.

### Power Connectors: JATXPWR1

 <b>JATXPWR1</b>	PIN	Assignment	PIN	Assignment
	1	+3.3V	11	+3.3V
	2	+3.3V	12	-12V
	3	Ground	13	Ground
	4	+5V	14	PS_ON
	5	Ground	15	Ground
	6	+5V	16	Ground
	7	Ground	17	Ground
	8	PW_OK	18	-5V
	9	Standby Voltage +5V	19	+5V
	10	+12V	20	+5V

## Front Panel Connector: JPANEL1

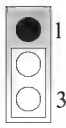
Pin	Assignment	Function	Pin	Assignment	Function
1	+5V	Speaker Connector	2	Sleep Control	Sleep Button
3	NA		4	Ground	
5	NA		6	NA	NA
7	Speaker		8	Power LED (+)	POWER LED
9	HDD LED (+)	Hard Drive LED	10	Power LED (+)	
11	HDD LED (-)		12	Power LED (-)	
13	Ground	Reset Button	14	Power Button	Power-on Button
15	Reset Control		16	Ground	
17	NA		18	KEY	
19	NA	IrDA Connector	20	KEY	IrDA Connector
21	+5V		22	Ground	
23	IRTX		24	IRRX	

## Front USB Header: JUSB1/2

Pin	Assignment	Pin	Assignment
1	+5V(fused)	2	+5V(fused)
3	USBP4-	4	USBP5-
5	USBP4+	6	USBP5+
7	Ground	8	Ground
9	KEY	10	NA



## Power Source Selection for Keyboard/ Mouse: JKBV1

JKBV1	Assignment	Description
<p>Pin 1-2 close</p>	+5V	+5V for keyboard and mouse

 Pin 2-3 close	+5V Standby Voltage	PS/2 Mouse and PS/2 Keyboard are powered with +5V standby voltage
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*Note: In order to support this function "Power-on the system via keyboard and mouse", "JKBV1" jumper cap should be placed on pin 2-3.*

### Power Source Selection for USB: JUSBV1/ JUSBV2

JUSBV1/JUSBV2	Assignment	Description
 Pin 1-2 close	+5V	<p>JUSBV1: 5V for USB connectors located at the JUSBLAN1 connector port</p> <p>JUSBV2: 5V for USB connectors located at the JUSB1/2 connector ports</p>
 Pin 2-3 close	+5V Standby Voltage	<p>JUSBV1: JUSBLAN1 port powered with standby voltage of 5V</p> <p>JUSBV2: JUSB1/2 ports powered with standby voltage of 5V</p>

*Note: In order to support this function "Power-on the system via USB devices", "JUSBV1/ JUSBV2" jumper cap should be placed on pin 2-3 respectively.*

### Clear CMOS Jumper: JCMOS1

JCMOS1	Assignment
 Pin 1-2 Close	Normal Operation (default)
 Pin 2-3 Close	Clear CMOS Data




The following procedures are for resetting the BIOS password. It is important to follow these instructions closely.


※ **Clear CMOS Procedures:**

1. Remove AC power line.
2. Set the jumper to "Pin 2-3 Close".
3. Wait for five seconds.
4. Set the jumper to "Pin 1-2 Close".
5. Power on the AC.
6. Reset your desired password or clear the CMOS data.


**Case Open Connector: JCI1**

 JCI1	Pin	Assignment
	1	Case Open Signal
	2	Ground


**CD-ROM Audio-In Header: JCDIN1/ JCDIN2**

 JCDIN1/2	Pin	Assignment
	1	Left Channel Input
	2	Ground
	3	Ground
	4	Right Channel Input


**Front Panel Audio Header: JAUDIO1**

 JAUDIO1			
Pin	Assignment	Pin	Assignment
1	Mic In	2	Ground
3	Mic Power	4	Audio Power
5	Right Line Out/ Speaker Out Right	6	Right Line Out/ Speaker Out Right
7	Reserved	8	Key
9	Left Line Out/ Speaker Out Left	10	Left Line Out/ Speaker Out Left

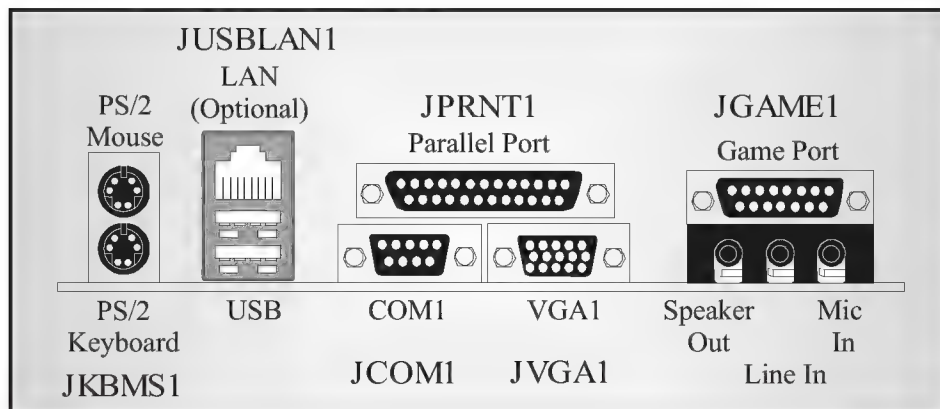
### Digital Audio Connector: JSPDIF1

 <p><b>JSPDIF1</b></p>	Pin	Assignment
	1	+5V
	2	SPDIF_OUT
	3	Ground

### Wake On LAN Header: JWOL1

 <p><b>JWOL1</b></p>	Pin	Assignment
	1	+5V Standby
	2	Ground
	3	Wake up

### Back Panel Connectors



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## Español

### Características del M6VLQ Pro

#### A. Hardware

##### CPU

- Proporciona Socket 370.
- Soporta procesador Celeron™ PPGA (FC-PGA & FC-PGA2) y Pentium® III Micro-Procesador (FC-PGA & FC-PGA2) y VIA C3 Ezra and Ezra –T Samuel 2 para estaciones de trabajo y servidores de alta capacidad.
- Front Side Bus a 66/100/133 MHz.

##### Chipset

- North Bridge: VIA CLE266.
- South Bridge: VIA VT8235.

##### Memoria Principal

- Soporta hasta 2 dispositivos DDR.
- Soporta dispositivos DDR 200/266 MHz (sin ECC).
- Tamaño máxima de memoria 2GB.

##### Lan Chip (opcional)

- Chip: VIA VT6103.
- Soporta 10 Mb/s y 100 Mb/s auto-negociación
- Half/ Full duplex.

##### Ranuras

- Tres ranuras 32-bit PCI bus master.
- Una ranura CNR.

##### IDE Onboard

- Soporta cuatro IDE disk drives.
- Soporta Modo PIO 4, Modo Bridge y Ultra DMA 33/66/100/133 Modo Bus Master.

##### Super I/O

- Chip: ITE IT8705.
- Proporciona el más alto funcionamiento de uso común para Super I/O.
- Environment Control initiatives
  - Monitor H/W
  - Controlador de Velocidad del Ventilador
  - Función ITE "Smart Guardian"

##### AC'97 Sound Codec Onboard

- Chip: VIA VT1612A.
- AC'97 2.2 S/PDIF extensión del codec.
- 18-bit estéreo full duplex.

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## Periféricos Onboard

### a. Parte Trasera

- 1 puerto en serie.
- 1 puerto VGA.
- 1 puerto paralelo. (modos SPP/EPP/ECP)
- 1 puerto de audio en posición horizontal.
- 1 LAN jack.
- Ratón PS/2 y teclado PS/2.
- 2 puertos USB2.0.

### b. Parte Delantera

- 1 puerto para disquetera soportando 2 FDDs de 360K, 720K, 1.2M, 1.44M y 2.88Mbytes.
- 4 puertos USB2.0.
- 1 Conector S/PDIF Out.

## Dimensiones

- Forma de Factor Micro ATX: 19 X 24.4cm (W X L)

## B. BIOS & Software

### BIOS

- Award legal Bios.
- APM1.2.
- ACPI.
- Función USB.

### Software

- Soporta Watchdog™, 9th Touch™, FLASHER™, StudioFun!™ (opcional), Warspeeder™.
- Ofrece el más alto funcionamiento para Windows 98 SE, Windows 2000, Windows Me, Windows XP, SCO UNIX etc.

## Contenido del Paquete

- Cable HDD X1
- Cable FDD X1
- Manual del Usuario X1
- Cable USB X1 (opcional)
- Panel trasero I/O para carcasa ATX X1 (opcional)
- Configuración completa del CD X1
- Cable S/PDIF X1 (opcional)
- Aplicación del CD StudioFun! X1 (opcional)

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## Cómo instalar un Puente

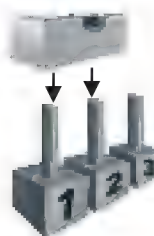
La ilustración muestra cómo instalar un puente. Cuando el Jumper Cap está ubicado en los contactos, el puente está en "close". Si no hay Jumper Cap ubicado en los contactos, el puente está en "open". La siguiente ilustración muestra un contacto 3 en el que los contactos 1 y 2 están "close" cuando el Jumper Cap está ubicado en los dos contactos.



Puente open



Puente close



Contacto 1-2 close

## Instalación de la CPU

**Paso 1:** Empuje la palanca hacia afuera del socket y levante la palanca hasta un ángulo de 90 grados.

**Paso 2:** Fíjese por el punto blanco o margen cortado. El punto blanco o margen cortado debería apuntar hacia el pivote de la palanca. La CPU solamente se fijará en una sola correcta orientación.

**Paso 3:** Tome el CPU firmemente hacia abajo, y cierre la palanca para completar la instalación.

**Paso 4:** Ponga el ventilador de la CPU en el CPU y asegúrelo. Conecte el cable de corriente del ventilador de la CPU al JCFAN1. Ésto completa la instalación.



paso 1



paso 2



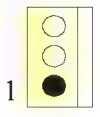
paso 3




paso 4



### Cabezal del Sistema de Ventilación del CPU: JCFAN1

 JCFAN1	Conrtacto No.	Asignación
	1	Tierra
	2	+12V
	3	FAN rpm Rate Sense

### Cabezal del Sistema de Ventilación: JSFAN1

 JSFAN1	Contacto No.	Asignación
	1	Tierra
	2	+12V
	3	FAN rpm Rate Sense

## Módulos DIMM: DIMM1/ DIMM2

DRAM Tiempo de Acceso: 2.5V Unbuffered DDR 200/266 MHz Tipo requerido.

DRAM Tipo: 64MB/ 128MB/ 256MB/ 512MB/ 1GB Módulo DIMM (184 contactos)

### Total del Tamaño de Memoria Unbuffered DIMMs

Localización del Socket DIMM	Módulo DDR	Total del Tamaño de Memoria (MB)
DIMMB1	64MB/128MB/256MB/512MB/1GB *1	Máximo 2GB
DIMMB2	64MB/128MB/256MB/512MB/1GB *1	

\*\*\*Solamente para referencia\*\*\*

### Instalación del Módulo DDR

1. Abra una ranura de DIMM presionando el clip de retención hacia afuera. Alinee el DIMM en la ranura tales que la muesca en el DIMM encaje en la cubrera de la ranura.
2. Inserte el DIMM verticalmente y firmemente en la ranura hasta que el clip de retención vuelva a su posición original y el DIMM esté correctamente colocado.



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## Puentes, Cabezales, Conectores y Ranuras

### Conector de Disquetera: FDD1

La placa madre proporciona un conector estándar para disquete que soporta disquetera de 360K, 720K, 1.2M, 1.44M y 2.88M. Éste conector utiliza cables proporcionados por el disquete.

### Conector del Disco Duro: IDE1/ IDE2

La placa madre tiene un controlador de 32-bit PCI IDE que proporciona Modo PIO 0~5, Bus Master, y funcionalidad Ultra DMA 33/ 66/ 100. Tiene dos conectores HDD: IDE1 (primario) y IDE2 (secundario).

Los conectores IDE puede conectar a un disco master y uno esclavo, así puede conectar hasta cuatro discos duros. El primer disco duro debe estar siempre conectado al IDE1.

### Ranuras de Interconexión del Componente Periférico: PCI1-3

Ésta placa madre está equipada con 3 ranuras estándar PCI. PCI es la sigla para Interconexión del Componente Periférico, y es un bus estándar para tarjetas de expansión. Ésta ranura PCI está diseñado con 32 bits.

### Ranura de Banda de Suspensión de Comunicación y Red: CNR1

La especificación CNR es una abierta Industria de Arquitectura Estándar, que define una tarjeta de interface escalable del hardware en el que soporta solamente modem.

### Conectores de Corriente: JATXPWR1

 <b>JATXPWR1</b>	Contactos	Asignación	Contactos	Asignación
	1	+3.3V	11	+3.3V
	2	+3.3V	12	-12V
	3	Tierra	13	Tierra
	4	+5V	14	PS_ON
	5	Tierra	15	Tierra
	6	+5V	16	Tierra
	7	Tierra	17	Tierra
	8	PW_OK	18	-5V
	9	Voltaje Standby +5V	19	+5V
	10	+12V	20	+5V

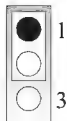
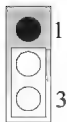
### Conector del Panel Frontal: JPANEL1

Contacto	Asignación	Función	Contacto	Asignación	Función
1	+5V	Conector del Altavoz	2	Control de Suspension	Botón de Suspension
3	NA		4	Tierra	
5	NA		6	NA	NA
7	Altavoz		8	Corriente LED (+)	Corriente LED
9	HDD LED (+)	LED del Disco Duro	10	Corriente LED (+)	
11	HDD LED (-)		12	Corriente LED (-)	
13	Tierra	Botón de Reinicio	14	Botón de Encendido	Botón de Encendido
15	Control de Reinicio		16	Tierra	
17	NA		18	KEY	
19	NA	Conector IrDA	20	KEY	Conector IrDA
21	+5V		22	Tierra	
23	IRTX		24	IRRX	

### Cabezal Frontal USB: JUSB1/2



		Contactos	Asignación	Contactos	Asignación
JUSB1/2	1	1	+5V (fused)	2	+5V (fused)
	2	3	USBP4-	4	USBP5-
	3	5	USBP4+	6	USBP5+
	4	7	Tierra	8	Tierra
	5	9	KEY	10	NA

### Fuente de Corriente Selección para Teclado/ Ratón: JKBV1

JKBV1	Asignación	Descripción
 Contacto 1-2 close	+5V	+5V para teclado y ratón
 Contacto 2-3 close	Voltaje Standby +5V	Ratón PS/2 y Teclado PS/2 son encendidos con un voltaje standby de +5V



*Nota: Para soportar la función “Encendiendo el sistema por medio del teclado y ratón”, el jumper cap del “JKBV1” debe ser ubicado en el contacto 2-3.*

### Fuente de Corriente Selección para USB: JUSBV1/ JUSBV2

JUSBV1/JUSBV2	Asignación	Descripción
 Contacto 1-2 close	+5V	JUSBV1: 5V para conectores USB ubicados en el puerto JUSBLAN1  JUSBV2: 5V para conectores USB ubicado el el puerto JUSB1/2
 Contacto 2-3 close	Voltaje Standby +5V	JUSBV1: puerto JUSBLAN1 encendidos con voltaje standby de 5V  JUSBV2: puertos JUSB1/2 encendidos con voltaje standby de 5V

*Nota: Para soportar la función “Encendiendo el sistema por medio del dispositivo USB”, el jumper cap del “JUSBV1/ JUSBV2” debe ser ubicado en el contacto 2-3 respectivamente.*

## Puente de Borrar CMOS: JCMOS1

JCMOS1	Asignación
 <p>3 1</p> <p>Contacto 1-2 Close</p>	Operación Normal (default)
 <p>3 1</p> <p>Contacto 2-3 Close</p>	Borra datos del CMOS




Los siguientes procesos son para reiniciar la contraseña del BIOS. Es importante que siga los siguientes pasos cuidadosamente.

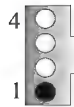
### ※ Procedimientos para Borrar CMOS:

1. Quite el cable de corriente del AC.
2. Fijar el puente en el "contacto 2-3 close".
3. Espere 5 segundos.
4. Fijar el Puente en el "contacto 1-2 close".
5. Encienda AC.
6. Reconfigure la contraseña deseada o borre datos CMOS.

## Conector de la Carcasa Abierta: JCI1

 <p>1</p> <p>JCI1</p>	Contactos	Asignación
	1	Señal de la Carcasa Abierta
	2	Tierra


## Cabezal de Entrada de Audio CD-ROM: JCDIN1/ JCDIN2

 <p>4 1</p> <p>JCDIN1/2</p>	Contactos	Asignación
	1	Entrada del Canal Izquierdo
	2	Tierra
	3	Tierra
	4	Entrada del Canal Derecho

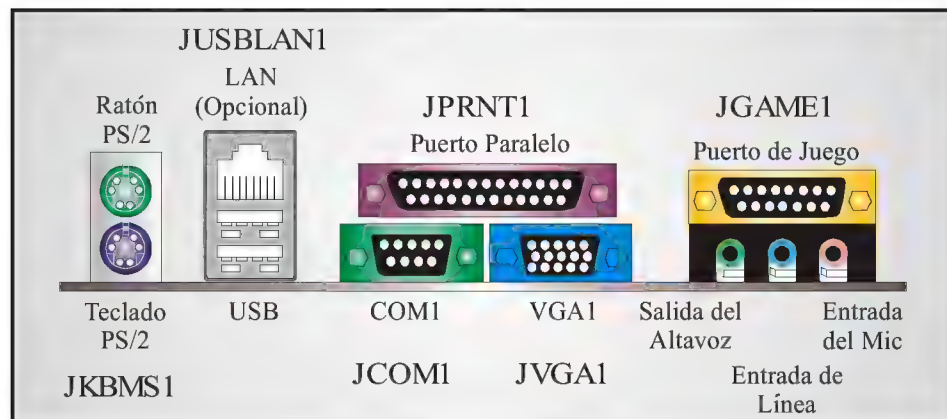
### Cabezal de Audio del Panel Frontal: JAUDIO1

			
<b>JAUDIO1</b>			
Contactos	Asignación	Contactos	Asignación
1	Entrada del Mic	2	Tierra
3	Corriente del Mic	4	Corriente de Audio
5	Salida de Línea Derecho/ Salida del Altavoz Derecho	6	Salida de Línea Derecho/ Salida del Altavoz Derecho
7	Reservado	8	Key
9	Salida de Línea Izquierdo/ Salida del Altavoz Izquierdo	10	Salida de Línea Izquierdo/ Salida del Altavoz Izquierdo

### Conector Digital de Audio: JSPDIF1

	Contactos	Asignación
	1	+5V
	2	SPDIF_OUT
	3	Tierra

### Conectores del Panel Trasero



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# StudioFun!™

## Introduction

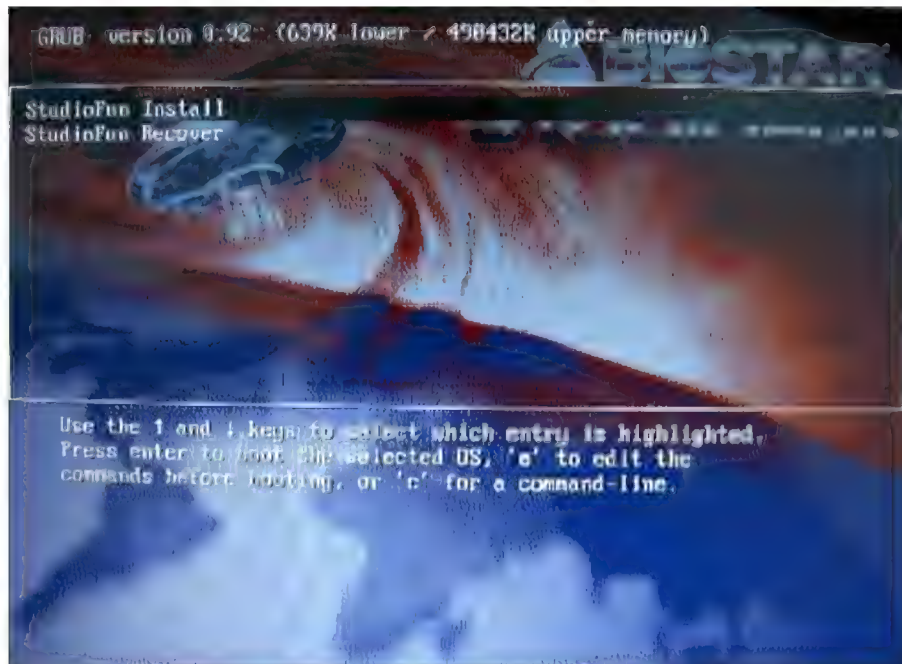
StudioFun!™ is a media-player based on optimized GNU/Linux distribution to bring a "Room Theater" experience into life. It plays DVD, VCD, MP3, Audio CD and other multimedia. Furthermore, Users can take snapshots of video and customize the saved images as screensavers or photo slideshows. Of course, the images can be stored in USB mass storage devices like flash disks and USB floppy disks.

## Hardware Requirements

The supported hardware list of StudioFun! updates regularly. So please check the "hwreq.txt" located in the root of StudioFun! Application Pack CD to get the latest supporting information.

## Installation Procedure

Insert the "StudioFun! Application Pack CD" in a CD/DVD ROM drive and let the system boot through the CD. The disk will boot and bring up the grub boot loader installation menu. Two options are specified: "StudioFun Install" and "StudioFun Recover".



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## StudioFun! Install

This option will do the basic installation of the distribution. The installation works on pre-installed windows or GNU/Linux distribution.

On selecting the "StudioFun Install" option the installer boots and displays a dialog box indicating the space required and waits for a confirmation. Selecting "Ok" will continue the installation while selecting "Cancel" will terminate the installation and reboot the machine.

If Windows or GNU/Linux is the only OS installed on the hard disk with no free space, it will resize the partition, either NTFS or FAT32 or ext2, and install StudioFun!. *If the hard disk has a 128MB of free space available, the installation will use the free space.*

After installing the base system you will be prompted to select the resolution from the following choices

1. 1024x768 (recommended)
2. 800x600
3. 640x480

Select the desired resolution. The default is 1024x768 for high-end graphics.

Next you will be prompted to choose the DVD area/region selection code. Choose this based on the type of DVDs you will be playing.

The installation procedure will then probe for the type of mouse installed. The distribution currently supports PS/2, USB and Serial mice. In case of serial mouse you will have to move the mouse when prompted. The other two are probed and installed automatically.

The installation procedure will now finish, the CD is ejected and a dialog box prompting to reboot the machine is displayed. Press "OK" button and enjoy StudioFun!.

### 3.1.1 Error Messages

1. Media corrupted!! Please check the media! The CD-ROM is corrupted.
  2. Extraction of base system failed!! Please try again later!! The CD-ROM is corrupted.
  3. Unsupported hardware found, Aborting... If you try to install StudioFun! on an unsupported and undocumented hardware the above error message is popped.
  4. No device found! This error message is given if there is no hard disk in the system.
-



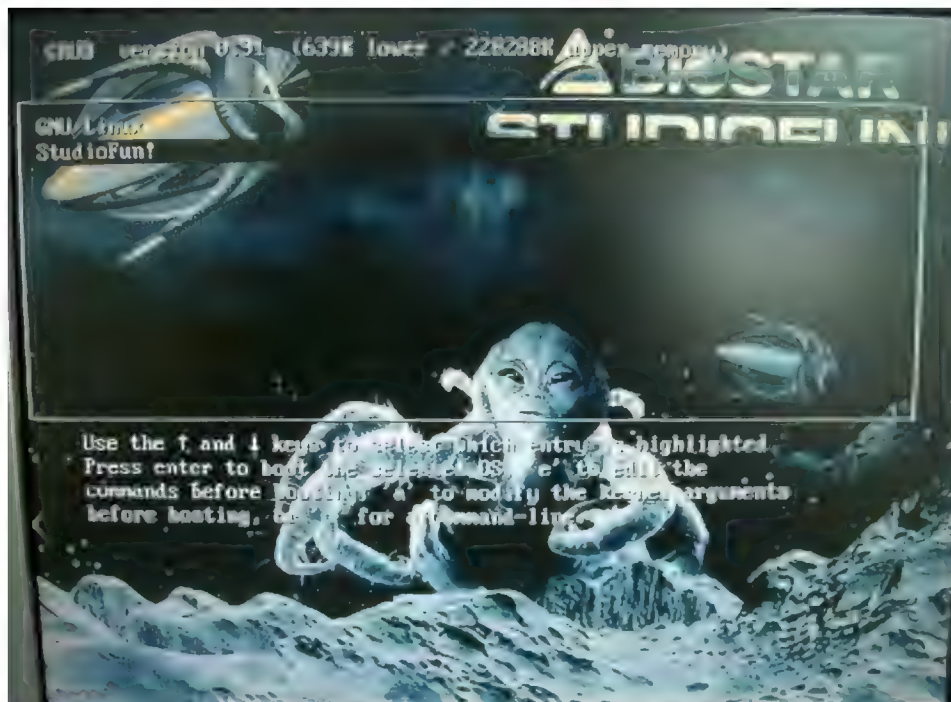
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## StudioFun! Recover

Where there is a MBR (Master Boot record) corruption, the “StudioFun Recover” will automatically probe the hard disk master boot record and find out the installed operating system(s). Once success, it will re-install the boot loader with correct options in the MBR. Please be noted that the newly probed one will over write any custom boot loader option specified from other GNU/Linux installations.

## Booting to StudioFun!

After the Installation, remove the CD from the CD-ROM and restart the system. After the rebooting, you will get the “GRUB boot loader menu screen”. Select the StudioFun! Option to boot to the StudioFun! Partition.



After executing the boot up, you will see the main Desktop screen. The following section is a complete description of the Desktop application.

---

## Desktop



This is the main shell of the StudioFun! software. It illustrates two main categories, one is the main "Media Control" part and the other is the "Control Panel".

## Media control

The Media Control consists of the following functionalities:

### 1. VCD

This control icon will glow whenever a VCD is detected in a DVD/CD-ROM drive. The VCD will be auto-played *only* when it is put in to the drive when the Desktop (StudioFun! shell) is up and running whereas the control will simply glow to inform the user about a VCD present in the DVD/CD-ROM drive when the Desktop is not launched.

### 2. DVD

This control will glow whenever a DVD is detected in a DVD drive. The DVD will be auto-played *only* when it is put in to the drive when the Desktop (StudioFun! shell) is up

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and running, otherwise, the control will simply glow to inform the user about a DVD present in the DVD/CD-ROM.

### **3. MP3**

This control will glow whenever a MP3 is detected in a DVD/CD-ROM drive. The MP3 will be auto-played *only* when it is put in to the drive when the Desktop (StudioFun! shell) is up and running, otherwise, the control will simply glow to inform the user about a MP3 present in the DVD/CD-ROM drive.

### **4. AUDIO**

This control will glow whenever a AUDIO is detected in a DVD/CD-ROM drive. The AUDIO will be auto-played *only* when it is put in to the drive when the Desktop (StudioFun! shell) is up and running, otherwise, the control will simply glow to inform the user about a AUDIO present in the DVD/CD-ROM drive.

### **5. FILE**

This control will glow whenever a File CD (CDs with other media type files) is detected in a DVD/CD-ROM drive. The File CD will be auto-played *only* when it is put in to the drive when the Desktop (StudioFun! shell) is up and running, otherwise, the control will simply glow to inform the user about a File CD present in the DVD/CD-ROM drive.

### **6. EJECT MEDIA**

When clicked this control, the file disk from the DVD/CDROM drives will be ejected.

### **7. EXIT**

This is the "Power on/off" control of the Desktop (StudioFun! shell).

## **Control Panel**

The Control panel part has five icons, which are shortcuts to other applications present in the StudioFun!. Tool tips will pop up once the mouse is rolled to the icons

### **1. Select Region**

Clicking this icon will invoke the application for selection DVD region settings. Refer to section 5.2 Select DVD Region application for more details.

### **2. Screensaver**

Clicking this icon will invoke the screensaver application. Refer to section 5.3 **Screensaver** for more details.

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### 3. Display Settings

Clicking this icon will invoke the application for changing the screen resolutions. Refer to section 5.4, **Display Settings** for more details.

### 4. File Manager

Clicking this icon will invoke the file manager. Refer to section 5.6 **File manager** for more details.

#### When user has a DVD and a CD-ROM Drive, DVD Drive has the priority:

If user has both DVD and a CD-ROM drive, DVD drive will be given the preference when both the drives hold valid media in them, i.e., if the CD-ROM drive has a media and a DVD drive also has a media, and the StudioFun! is started, the disk inside the DVD drive will be played.

#### Other general user scenarios

When a user clicks on any of the media-controls when it is not glowing, except the eject media and exit, the media-player will just come up and wait for user input.

## Software Details



### XINE

XINE is a multimedia player. It plays back Audio CD, DVD, and VCD. It also decodes multimedia files like AVI, MOV, WMV, and MP3 from local disk drives. It interprets most of the common multimedia formats.

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- **Features of Xine**

- a. Skinnable GUI
- b. Navigation controls (seeking, pause, fast, slow, next chapter, etc)
- c. On Screen Display (OSD) features
- d. DVD and external subtitles
- e. DVD/VCD menus (requires external plug-in)
- f. Audio and subtitle channel selection
- g. Closed Caption support
- h. Brightness, contrast, audio volume, hue, saturation adjusting requires hardware/driver support)
- i. Playlist
- j. Image snapshot
- k. Audio re-sampling
- l. Software de-interlacing algorithms
- m. Configuration dialog
- n. Aspect ratio changing
- o. Full-screen display

- **Supported File Formats**

- a. Video CD
- b. MPEG program streams (.mpg, .mpeg)
- c. ogg (.ogg) avi (.avi)
- d. asf (.asf, .wmv)
- e. QuickTime (.mov)
- f. MPEG-Video (.mpv, .m2v)
- g. MPEG-Audio (.mp2, .mp3)
- h. WAV (.wav) Video CODEC
- i. MPEG 1/2
- j. MPEG 4 (aka OpenDivX)
- k. MS MPEG 4
- a. Chapter 5: Software Details 10
- l. Windows Media Video 7
- m. Motion JPEG

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- **Remote Control Support.**

- a. Infrared interface
- b. User-friendly

- **Usage of StudioFun! with CelomaChrome skin**

- a. Select VCD button to play a VCD disc
  - b. Select DVD button to play a DVD disc
  - c. Select CDDA button to play a Audio CD
  - d. Select next chapter or MRL (>>|) button to play next track in Audio CD, VCD and MP3 songs and to play next chapter in DVD
  - e. Select previous chapter or MRL (|<<) button to play previous track in Audio CD, VCD and MP3 songs and to play previous chapter in DVD
  - f. Select slow motion (<<) button to play the video / audio in slow motion (Select play button after reaching the required position)
  - g. Select fast motion (>>) button to play the video / audio in fast motion (Select play button after reaching the required position)
  - h. Select subs + / - button to select the appropriate subtitle (Usable while playing)
  - i. Select audio + / - button to select the appropriate audio track (For example when
  - j. The DVD contains one audio track in English and the other with some other language,
  - k. Usable while playing DVD's)
  - l. Select "hide button" to hide the control panel of the player
  - m. Select "menu" button to use menu while playing DVD
  - n. Select "control" button to adjust brightness / color
  - o. Select "setup" button to modify the settings of the player
  - p. Select "f.scr" button to show the video output of the player in full screen mode
  - q. Select "snap" button to take a snapshot of the currently playing video
  - r. Select "plist" button to add / remove / manage playlist
  - s. Select "mrl" button to add new file to play
- 
-

---

## Select Region

### Overview

Select region is a utility to set a DVD region. With the help of this application user can set or change a DVD region. Only one region can be set at a time.

### About Select Region

With the help of this application you can set a region for DVD. Only one region can be set at a time. If you keep the mouse pointer on any region, you can view the countries, which comes under that region.

“Ok” - Click to set the selected region.

“Cancel” - Click to quit the application.

### How to select DVD region

You can select only one region at a time. You can change your selection by clicking on any other region.

- A snapshot of the application is shown below:



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## Screensaver

### Screensaver

The xscreensaver daemon waits until the keyboard and mouse have been idle for a period, and then runs a graphics demo chosen at random. The demo is terminated as soon as there is any mouse or keyboard activity.

The xscreensaver-demo program is the graphical user interface to xscreensaver. It lets you tune the various parameters used by the xscreensaver daemon, and browse through the graphics demos.

StudioFun! comes with xscreensaver when you click on the screensaver icon the application comes up. Then user can choose various graphics demos like chbg, halo, hypercube or hyperball.

### Screensaver comes with various options

- **Preview Option:** When a user selects a particular graphics demo and clicks on preview button the demo comes up.
- **Blank After Option:** The screensaver will blank the screen after the keyboard and mouse have been idle default time is 1minute and user can change the settings.
- **Cycle After Option:** When screensaver is running this cycle time defines the time limit for each screensaver.
- **Mode Screensaver comes with various modes:**
  1. **Random Screen Saver:** When user chooses this option, Screensaver cycles through various graphics demos randomly
  2. **Only one Screen Saver:** When user chooses this option, screensaver displays only one graphics demo.
  3. **Blank Screen Only:** When user chooses this option, screensaver only blanks the screen instead of displaying the graphics demo.
  4. **Disable Screen Saver:** When user chooses this option, screensaver is disabled.
- **Various Graphics Demos**

XScreensaver comes with various screensaver

Chbg: This screensaver displays the images stored in StudioFun! the time gap between images is 5 seconds.

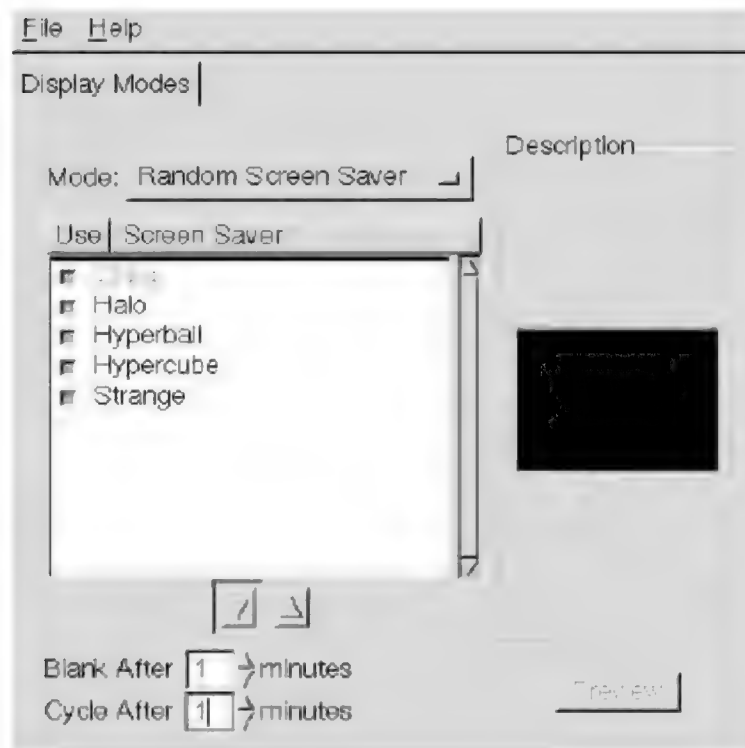
Hyperball

Hypercube

Halo

Strange
- A snapshot of the application is shown below:





## Display Settings

### Display Settings

Display setting is a program to change the current resolution settings of the Display. By default user of StudioFun! will be given a choice to select between any of the following three resolutions.

- 640x480
- 800x600
- 1024x768

The current resolution of the Display will be selected by default. It requires restart of the StudioFun! to reflect the changes made.

## File Manager

### Overview

File manger is a utility to copy files from deferent devices to hard disk and vice versa. User can copy files from devices such as, floppy, CD-Rom and Flashdisk to hard disk and also

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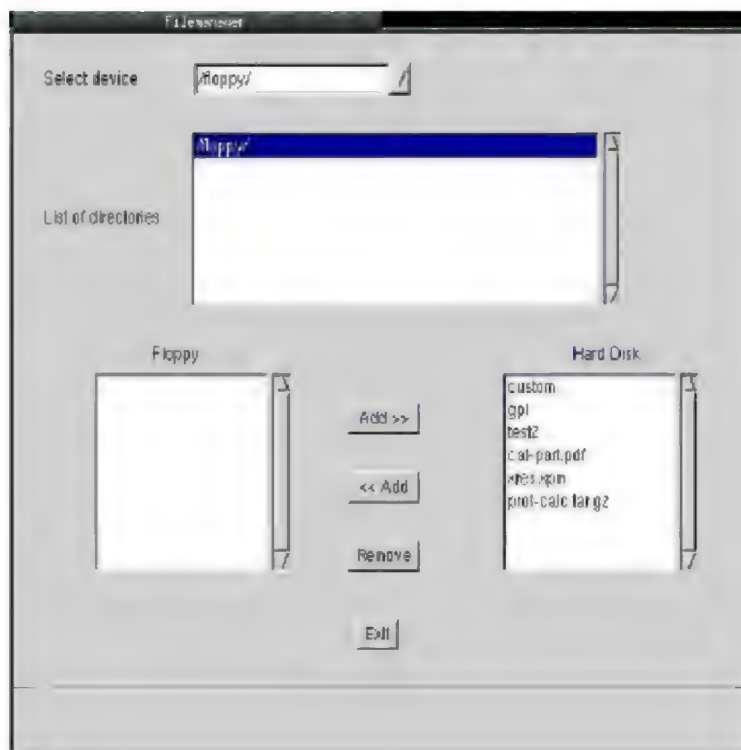
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from hard disk to floppy and Flashdisk.

### About File manager

The hard disk files are stored in a directory called “/studiofun” on the hard disk. You can also delete files from hard disk, but you cannot delete files from any device.

- ✧ Select device - Contains the device names /floppy, /cdrom and /flashdisk. Select a device from/to which you want to copy files. **Please double click the device option twice to mount the device.**
- ✧ List Directories - Shows the list of directories of the selected device after double clicking it.
- ✧ Floppy/cdrom/Flashdisk - Shows the contents of the selected directory from the “List directories” field after double clicking it.
- ✧ Hard disk - Shows the contents of a directory called “/studiofun”.
- ✧ Add (>>) - Click to copy selected files from a device to hard disk.
- ✧ Add (<<) - Click to copy selected files from hard disk to a device.
- ✧ Remove - Click to delete files from hard disk.
- ✧ Exit - Click to quit the application.



---

## Watchdog Technology

It is important to know that when overclocking, the system can be at a vulnerable state. Therefore, the BIOSSTAR Watchdog Technology was designed to protect your PC under dangerous over-clock situations. Any over-clocking that reaches the threshold settings, the Watchdog Technology will disable your system from rebooting in the BIOS setting. Under this circumstance, please power off your PC. After that, press <Insert> and power on your system simultaneously to restart your system. This user-friendly design can save you from squandering your time on opening the case just to clear the CMOS. In the end, thanks to the Watchdog Technology, everything is back at a safe and sound!

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## WarpSpeeder



### Introduction

[ WarpSpeeder™ ], a new powerful control utility, features three user-friendly functions including Overclock Manager, Overvoltage Manager, and Hardware Monitor.

With the Overclock Manager, users can easily adjust the frequency they prefer or they can get the best CPU performance with just one click. The Overvoltage Manager, on the other hand, helps to power up CPU core voltage and Memory voltage. The cool Hardware Monitor smartly indicates the temperatures, voltage and CPU fan speed as well as the chipset information. Also, in the About panel, you can get detail descriptions about BIOS model and chipsets. In addition, the frequency status of CPU, memory, AGP and PCI along with the CPU speed are synchronically shown on our main panel.

Moreover, to protect users' computer systems if the setting is not appropriate when testing and results in system fail or hang, [ WarpSpeeder™ ] technology assures the system stability by automatically rebooting the computer and then restart to a speed that is either the original system speed or a suitable one.

### System Requirement

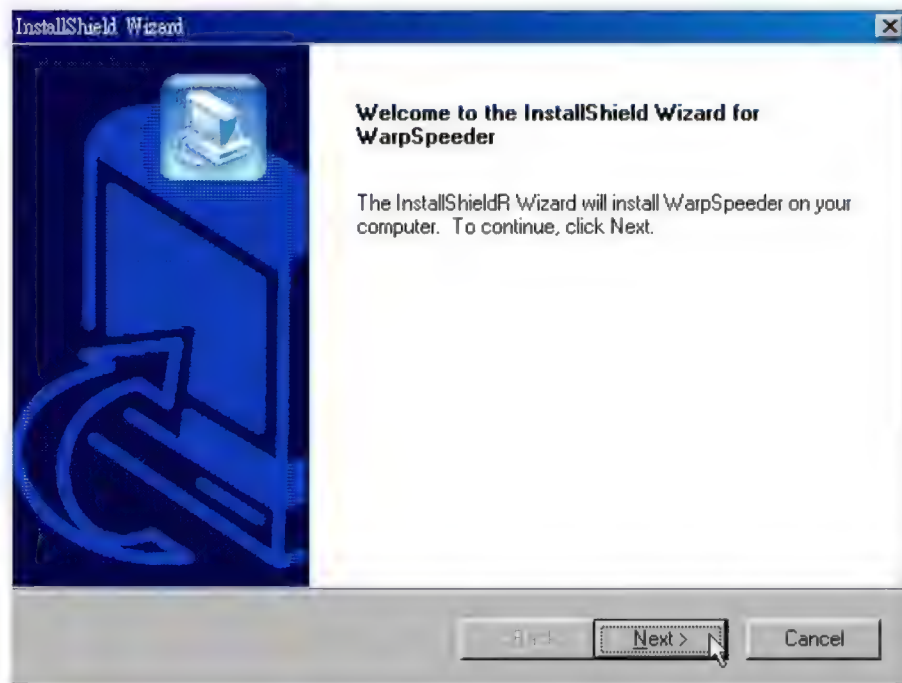
OS Support: Windows 98 SE, Windows Me, Windows 2000, Windows XP

DirectX: DirectX 8.1 or above. (The Windows XP operating system includes DirectX 8.1. If you use Windows XP, you do not need to install DirectX 8.1.)

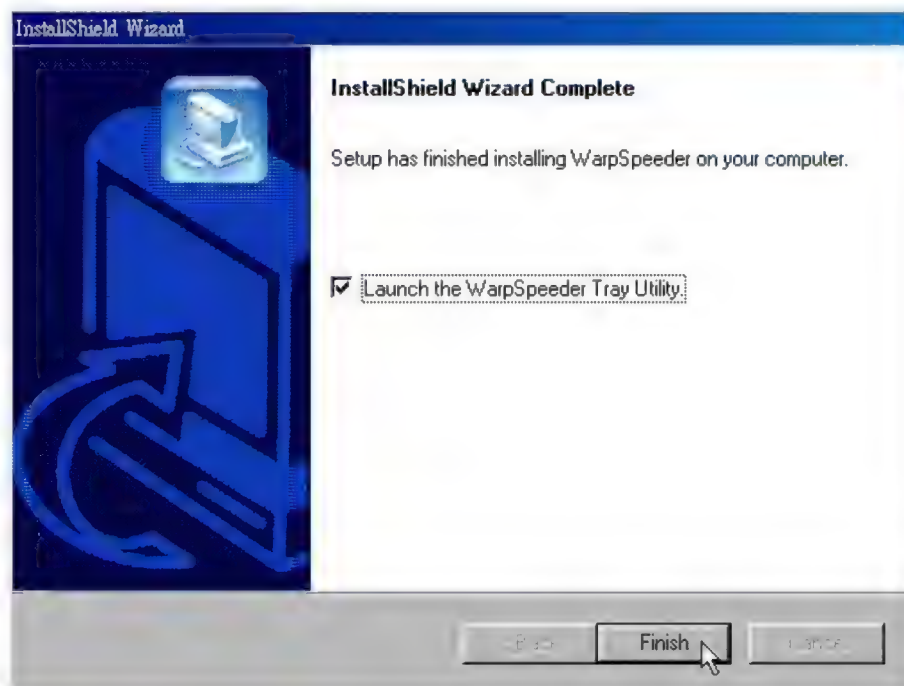
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## Installation

1. Execute the setup execution file, and then the following dialog will pop up. Please click “Next” button and follow the default procedure to install.



2. When you see the following dialog in setup procedure, it means setup is completed. If the “Launch the WarpSpeeder Tray Utility” checkbox is checked, the Tray Icon utility and [WarpSpeeder™] utility will be automatically and immediately launched after you click “Finish” button.



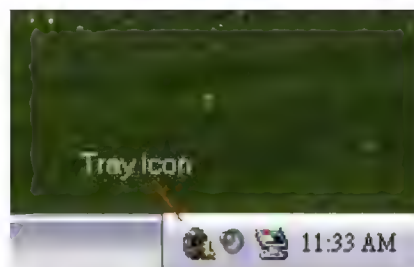
## Usage

*The following figures are just only for reference, the screen printed in this user manual will change according to your motherboard on hand.*

[WarpSpeeder™] includes 1 tray icon and 5 panels:

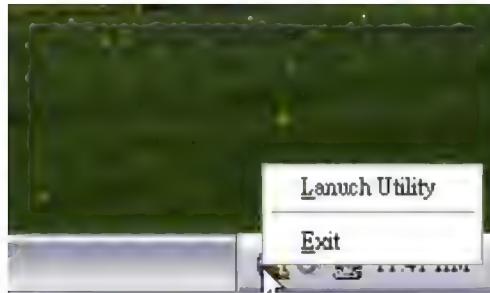
1. Tray Icon:

Whenever the Tray Icon utility is launched, it will display a little tray icon on the right side of Windows Taskbar.



---

This utility is responsible for conveniently invoking [WarpSpeeder™] Utility. You can use the mouse by clicking the left button in order to invoke [WarpSpeeder™] directly from the little tray icon or you can right-click the little tray icon to pop up a popup menu as following figure. The “Launch Utility” item in the popup menu has the same function as mouse left-click on tray icon and “Exit” item will close Tray Icon utility if selected.



## 2. Main Panel

If you click the tray icon, [ WarpSpeeder™ ] utility will be invoked. Please refer do the following figure; the utility's first window you will see is Main Panel.

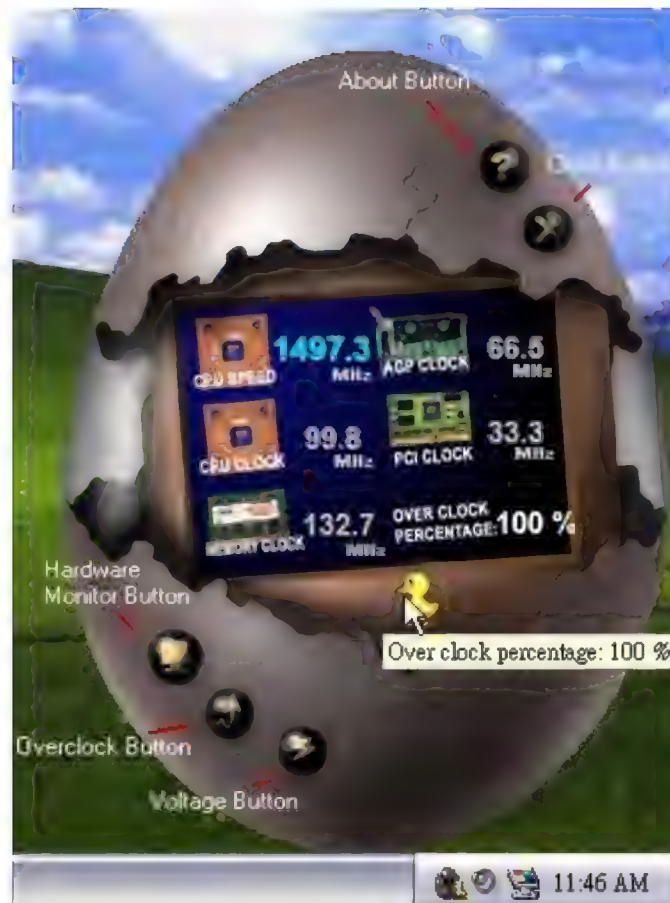
Main Panel contains features as follows:

- a. Display the CPU Speed, CPU external clock, Memory clock, AGP clock, and PCI clock information.
- b. Contains About, Voltage, Overclock, and Hardware Monitor Buttons for invoking respective panels.
- c. With a user-friendly Status Animation, it can represent 3 overclock percentage stages:

Duck walking => overclock percentage from 100% ~ 110 %

Duck running => overclock percentage from 110% ~ 120%

Duck burning => overclock percentage from 120% ~ above



### 3. Voltage Panel

Click the Voltage button in Main Panel, the button will be highlighted and the Voltage Panel will slide out to up as the following figure.

In this panel, you can decide to increase CPU core voltage and Memory voltage or not. The default setting is "No". If you want to get the best performance of overclocking, we recommend you click the option "Yes".





#### 4. Overclock Panel

Click the Overclock button in Main Panel, the button will be highlighted and the Overclock Panel will slide out to left as the following figure.

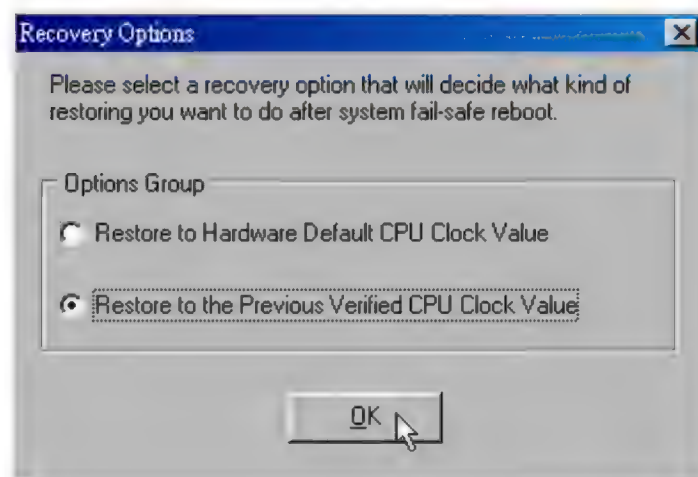


Overclock Panel contains these features:

- a. “-3MHz button”, “-1MHz button”, “+1MHz button”, and “+3MHz button”: provide user the ability to do real-time overclock adjustment.

*Warning: Manually overclock is potentially dangerous, especially when the overclocking percentage is over 110 %. We strongly recommend you verify every speed you overclock by click the Verify button. Or, you can just click Auto overclock button and let [ WarpSpeeder™ ] automatically gets the best result for you.*

- b. “Recovery Dialog button”: Pop up the following dialog. Let user select a restoring way if system need to do a fail-safe reboot.



- c. “Auto-overclock button”: User can click this button and [ WarpSpeeder™ ] will set the best and stable performance and frequency automatically. [ WarpSpeeder™ ] utility will execute a series of testing until system fail. Then system will do fail-safe reboot by using Watchdog function. After reboot, the [ WarpSpeeder™ ] utility will restore to the hardware default setting or load the verified best and stable frequency according to the Recovery Dialog’s setting.
- d. “Verify button”: User can click this button and [ WarpSpeeder™ ] will proceed a testing for current frequency. If the testing is ok, then the current frequency will be saved into system registry. If the testing fail, system will do a fail-safe rebooting. After reboot, the [ WarpSpeeder™ ] utility will restore to the hardware default setting or load the verified best and stable frequency according to the Recovery Dialog’s setting.

*Note: Because the testing programs, invoked in Auto-overclock and Verify, include DirectDraw, Direct3D and DirectShow tests, the DirectX 8.1 or newer runtime library is required. And please make sure your display card's color depth is High color (16 bit) or True color( 24/32 bit ) that is required for Direct3D rendering.*

---

## 5. Hardware Monitor Panel

Click the Hardware Monitor button in Main Panel, the button will be highlighted and the Hardware Monitor panel will slide out to left as the following figure.

In this panel, you can get the real-time status information of your system. The information will be refreshed every 1 second.



## 6. About Panel

Click the About button in Main Panel, the button will be highlighted and the About Panel will slide out to up as the following figure.

In this panel, you can get model name and detail information in hints of all the chipset that are related to overclocking. You can also get the mainboard's BIOS model and the Version number of [ WarpSpeeder™ ] utility.



*Note: Because the overclock, overvoltage, and hardware monitor features are controlled by several separate chipset, [ WarpSpeeder™ ] divide these features to separate panels. If one chipset is not on board, the correlative button in Main panel will be disabled, but will not interfere other panels' functions. This property can make [ WarpSpeeder™ ] utility more robust.*

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## Trouble Shooting

PROBABLE	SOLUTION
No power to the system at all Power light don't illuminate, fan inside power supply does not turn on. Indicator light on keyboard does not turn on	* Make sure power cable is securely plugged in * Replace cable * Contact technical support
PROBABLE	SOLUTION
System inoperative. Keyboard lights are on, power indicator lights are lit, hard drive is spinning.	* Using even pressure on both ends of the DIMM, press down firmly until the module snaps into place.
PROBABLE	SOLUTION
System does not boot from hard disk drive, can be booted from CD-ROM drive.	* Check cable running from disk to disk controller board. Make sure both ends are securely plugged in; check the drive type in the standard CMOS setup. * Backing up the hard drive is extremely important. All hard disks are capable of breaking down at any time.
PROBABLE	SOLUTION
System only boots from CD-ROM. Hard disk can be read and applications can be used but booting from hard disk is impossible.	* Back up data and applications files. Reformat the hard drive. Re-install applications and data using backup disks.
PROBABLE	SOLUTION
Screen message says "Invalid Configuration" or "CMOS Failure."	* Review system's equipment . Make sure correct information is in setup.
PROBABLE	SOLUTION
Cannot boot system after installing second hard drive.	* Set master/slave jumpers correctly. * Run SETUP program and select correct drive types. Call drive manufacturers for compatibility with other drives.



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## Solución de Problemas

CAUSA PROBABLE	SOLUCIÓN
No hay corriente en el sistema. La luz de corriente no ilumina, ventilador dentro de la fuente de alimentación apagada. Indicador de luz del teclado apagado.	<ul style="list-style-type: none"> <li>* Asegúrese que el cable de transmisión esté seguramente enchufado.</li> <li>* Reemplace el cable.</li> <li>* Contacte ayuda técnica.</li> </ul>

CAUSA PROBABLE	SOLUCIÓN
Sistema inoperativo. Luz del teclado encendido, luz de indicador de corriente iluminado, disco rígido está girando.	<ul style="list-style-type: none"> <li>* Presione los dos extremos del DIMM, presione para abajo firmemente hasta que el módulo encaje en el lugar.</li> </ul>

CAUSA PROBABLE	SOLUCIÓN
Sistema no arranca desde el disco rígido, puede ser arrancado desde el CD-ROM drive.	<ul style="list-style-type: none"> <li>* Controle el cable de ejecución desde el disco hasta el disco del controlador. Asegúrese de que ambos lados estén enchufados con seguridad; controle el tipo de disco en la configuración estándar CMOS.</li> <li>* Copiando el disco rígido es extremadamente importante. Todos los discos rígidos son capaces de dañarse en cualquier momento.</li> </ul>

CAUSA PROBABLE	SOLUCIÓN
Sistema solamente arranca desde el CD-ROM. Disco rígido puede leer y aplicaciones pueden ser usados pero el arranque desde el disco rígido es imposible.	<ul style="list-style-type: none"> <li>* Copie datos y documentos de aplicación. Vuelva a formatear el disco rígido. Vuelva a instalar las aplicaciones y datos usando el disco de copiado.</li> </ul>

CAUSA PROBABLE	SOLUCIÓN
Mensaje de pantalla "Invalid Configuration" o "CMOS Failure."	<ul style="list-style-type: none"> <li>* Revise el equipo del sistema. Asegúrese de que la información configurada sea correcta.</li> </ul>

CAUSA PROBABLE	SOLUCIÓN
No puede arrancar después de instalar el segundo disco rígido.	<ul style="list-style-type: none"> <li>* Fije correctamente el puente master/esclavo.</li> <li>* Ejecute el programa SETUP y seleccione el tipo de disco correcto. Llame a una manufacturación del disco para compatibilidad con otros discos.</li> </ul>

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